

## Message Text

SECRET

PAGE 01 OTTAWA 02988 141933Z  
ACTION SS-25

INFO OCT-01 ISO-00 SSO-00 /026 W  
-----057743 151511Z /75

R 141927Z JUN 78  
FM AMEMBASSY OTTAWA  
TO SECSTATE WASHDC 7713  
INFO AMEMBASSY TAIPEI

S E C R E T OTTAWA 02988

EXDIS

E.O. 11652: XGDS-3  
TAGS: MNUC, TW, CA  
SUBJECT: CANADIAN REACTOR CONVERSION STUDY

REF: STATE 149222

1. SCICOUNS MET WITH J. J. NOBLE OF EXTAFF AND A. J. MOORADIAN OF AECL AND CONVEYED SUBSTANCE OF REFTTEL TO THEM.
  2. NOBLE EXPRESSED APPRECIATION FOR INFORMATION AND SAID GOC IS VERY INTERESTED IN LEARNING OF U.S. POLICY DECISION ON DISPOSITION OF SPENT TRR FUEL.
  3. MOORADIAN SAID HE HAS JUST REVIEWED A DRAFT OF AECL'S FEASIBILITY STUDY ON THE CONVERSION OF TRR TO OPERATE ON LEU FUEL. THEREFORE, AT LEAST A PRELIMINARY REPORT ON FINDINGS CAN BE TRANSMITTED TO U.S. BY JULY 10.
  4. MOORADIAN STATED THAT STUDY CONTAINS ALTERNATIVES ON SELECTION OF FUEL COMPOSITION AND ON NUMBER OF RODS REQUIRED. RESULTS TO DATE INDICATE THAT SEVEN ROD CLUSTER CONFIGURATION WITH LEU ALLOY CAN GIVE BETTER
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- REACTOR PERFORMANCE THAN WITH PRESENT NATURAL URANIUM RODS. HOWEVER, TWO OR THREE MORE CONTROL RODS MAY BE REQUIRED.
5. SINCE STUDY DOES PRESENT ALTERNATIVES, HE BELIEVES THAT IT IS DESIRABLE FOR SOMEONE FROM U.S. TO DISCUSS THESE WITH AECL, RATHER THAN TO GIVE ALL OF OPTIONS

TO TAIWAN AS A "GRAB BAG" TO CHOOSE FROM.

6. MOORADIAN STILL FEELS STRONGLY THAT FASTEST AND MOST EFFECTIVE WAY OF CONVERTING TRR TO LEU FUELING IS FOR THE FUEL TO BE FABRICATED AT CHALK RIVER. HE THINKS THIS COULD BE ACCOMPLISHED WITH AN 18 MONTHS LEAD TIME.

7. WITH REGARD TO DISPOSITION OF NATURAL URANIUM SPENT FUEL, THE AECL BELIEVES THAT THIS PROBLEM WOULD BE HANDLED BEST BY SHIPPING MATERIAL DIRECTLY TO THE U.S. FOR REPROCESSING.

8. COMMENT: IT APPEARS TO BE PRACTICALLY CERTAIN THAT AECL WILL BE ABLE TO DELIVER A PRELIMINARY REPORT ON CONVERSION OF THE TRR TO LEU FUEL BY JULY 10. EMBASSY WILL EXPEDITE TRANSMITTAL TO DEPARTMENT WHEN REPORT IS RECEIVED. SUGGEST THAT ONE OR MORE INDIVIDUALS FROM DEPARTMENT/ACDA/DOE TEAM BE PREPARED TO COME TO OTTAWA, AFTER REVIEWING REPORT, TO DISCUSS WHAT PART OF REPORT IS TO BE GIVEN TO TAIWAN.  
DUEMLING

SECRET

NNN

## Message Attributes

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**Capture Date:** 01 jan 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** STUDIES, NUCLEAR REACTORS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 14 jun 1978  
**Decaption Date:** 20 Mar 2014  
**Decaption Note:** 25 YEAR REVIEW  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 20 Mar 2014  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
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**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** X3  
**Errors:** N/A  
**Expiration:**  
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**TAGS:** MNUC, TW, CA  
**To:** STATE  
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**Review Markings:**  
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